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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,682	07/05/2005	Young-Min Oh	038779/286036 3035	
826 7590 05/07/2007 ALSTON & BIRD LLP			EXAMINER	
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	101 SOUTH TRYON STREET, SUITE 4000 CHARLOTTE, NC 28280-4000			PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	Application No.	Applicant(s)				
	10/517,682	OH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Fayyaz Alam	2618				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period versilized to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirn vill apply and will expire SIX (6) MONTHS from , cause the application to become AB ANDONE	N. sely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 22 M	<u>arch 2007</u> .					
,_	. ,—					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1 - 16 is/are pending in the application	4) Claim(s) 1 - 16 is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1 - 9 and 15</u> is/are allowed.						
6)⊠ Claim(s) <u>10 - 14 and 16</u> is/are rejected.						
7) Claim(s) is/are objected to.	1 41	•				
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) ☐ The specification is objected to by the Examine	eΓ.	•				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F	Patent Application				

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DETAILED ACTION

This action is in response to RCE filed 3/16/2007.

Claims 1 - 9 and 15 were allowed while claims 10 - 14 and 16 remained rejected.

Response to Arguments

Applicant's arguments with respect to claim 10 have been considered but are most in view of the new ground(s) of rejection.

Applicant argues that limitation in claim 10 "through an antenna" overcomes the prior art as disclosed by Rees et al.

Examiner respectfully disagrees. Please see claim 10 rejection below.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

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2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

 Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein we're made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 10, 11, 13, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rees et al. (UK App. # GB 2,272,604) in view of Hokkanen (USPN 5,752,165).

Consider claim 10, Rees et al. disclose an RBDS (21) (read as measuring device) to perform a method of VSWR measurement (read as receive sensitivity measurement method) coupled to a GSM BSS (read as communication system) including a transmit/receive antenna (202) (read as transmit-and-receive path) and a diversity receive antenna (17) (read as receive only path), the RBDS (211) (read as the measuring device) including a test transceiver (32) (read as terminal) for outputting a test call (read as test signal) over an RF interface (read as receive sensitivity measuring path; see pg. 6, lines 1 - 5) through a communication with either the transmit/receive antenna (202) (read as transmit-and-receive path) or the diversity receive antenna (17)

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(read as receive only path), the VSWR measuring (read as receive sensitivity measuring) method of a GSM BSS (read as a communication system) comprising (see fig. 1; fig. 5; pg. 4, line 7 - pg. 5, line 27; pg. 6, lines 1 - 9; pg. 6, line 29 - pg. 7, line 26):

(a) receiving the test call (read as test signal) from the test transceiver (32) (read as terminal) at the diversity receiver (13) which is coupled to diversity receive antenna (17) (read as receive only path and therefore a receive sensitivity path) (see figs. 1 & 5; pg. 5, line 36 - pg. 6, line 12; pg. 5, line 36 - pg. 6, line 9; pg. 7, lines 17 - 26); (b) calculating a cable loss between the diversity receive antenna (13) (read as receive sensitivity measuring path) and the test transceiver (32) (read as terminal) since it is diagnostics system and at high frequencies cable loss needs to be accounted for in the interest of precision measurement; receiver (12) (read as the receive sensitivity measuring path) receives the test signal by the test transceiver (32) (read as terminal) in (a) and the cable measured in (b) to measure the VSWR of antenna (16) (read as receive sensitivity measuring path) (see pg. 5, line 36 - pg. 6, line 12).

Consider **claim 11** as applied to claim 10, Rees et al. disclose that in order to test (read as measure) the receiver (12) (read as second receiver) coupled to the diversity receive antenna (17) (read as receive-only path), the control circuitry (20) (read as terminal) transmits a test call (read as communication between first transmitter and second receiver; see page 4, lines 36 - 38 and page 5, lines 1 - 27) through transmitter (11) (read as first transmitter) which is coupled to the transmit/receive antenna (202) (read as transmit and receive path; figure 3) and is received by the receiver (12) (read as second receiver; see page 4, lines 36 - 38 and page 5, lines 1 - 27).

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However, Rees fails to disclose receiving the test signal from the terminal through an antenna.

In the related field of endeavor, Hokkanen discloses receiving a predetermined test signal at the antenna of the receiver transmitted from the test transmitter (read as terminal) (see col. 1, lines 10 - 39).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the teachings of Rees with the teachings of Hokkanen in order to provide self testing ability at the base station using its own over the air transmission and reception functions and test the entire reception path from the antenna to the receiver and not just the receiver.

Consider **claim 13** as applied to claim10, Rees et al. disclose that tests can be carried out at different signal levels and also RBDS (21) has the functionality to select an appropriate test level signal (read as the terminal transmits the lowest receive level signal to the receive sensitivity measuring path, the lowest receive level signal being acceptable to the receive sensitivity measuring path; see page 6, lines 11 -12; page 7, lines 31 - 38; and page 8, lines 1 -2).

Consider **claim 16** as applied to claim 11, Rees et al. disclose diversity receiver (13) coupled to diversity receive antenna (17) (read as receive only path), the test transceiver (32) (read as terminal) sets up a test call (read as test signal) which is transmitted by the GSM BSS (read as communication system) to the diversity receiver (13) (read as receive only path) (see pg. 7 lines 11 - 26).

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Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rees (UK App. # GB 2,272,604).

Consider **claim 14** as applied to claim 10, Rees et al. fail to disclose a timer for automatically turning off the receive sensitivity measuring device when the terminal transmits the test signal and a predetermined time has passed.

The Examiner takes Official Notice that it is notoriously well known in the art of wireless communication to implement a power save or sleep mode function in any device.

Therefore it would have been obvious to a person of ordinary skill in the art to implement a timer for automatically turning off the receive sensitivity measuring device due to preset period of inactivity in order provide power efficiency and prolong battery life.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rees et al. (UK Patent Application # 2,272,604) as applied to claims 1 and 10 above, and further in view of Donovan (IMPS - Instant Messaging and Presence Using SIP. Fall VON Developers' Conference, Sep. 13, 2000, www.dynamicsoft.com).

Consider **claim 12** in view of claim 10, Rees et al. fail to disclose a method comprising: checking that the terminal of the measuring device has transmitted the test signal and the receive sensitivity measuring path has received the corresponding test signal, and turning off the measuring device.

In the related field of endeavor, Donovan disclose a method in the Session Initiation Protocol or SIP where Alice (read as terminal) sends a subscribe message

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(read as test signal) and the proxy server (read as receive sensitivity measuring path) after receiving sends back an accepted message (see pg. 6).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to slightly modify the teachings of Rees et al. with that of Donovan et al. in order to implement a well known method for reliable communication.

Rees et al. fail to disclose turning off the measuring device.

The Examiner takes Official Notice that it is notoriously well known in the art of wireless communication to turn off an electronic device after intended use.

Therefore it would have been obvious to a person of ordinary skill in the art to turn off the sensitivity device to ensure power consumption.

Conclusion

Any response to this Office Action should be **faxed to** (571) 273-8300 **or mailed to**:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314 Art Unit: 2618

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Fayyaz Alam whose telephone number is (571) 270-1102. The Examiner can normally be reached on Monday-Friday from 9:30am to 7:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Edan Orgad can be reached on (571) 272-7884. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

Fayyaz Alam

April 27, 2007

EDAN ORGAD
PRIMARY PATENT EXAMINER